



ANNUAL REPORT 1987-1988





The cover depicts the façade of the Henry F. Hall Building and a cross-section of the men and women – students, faculty and staff – who have made Concordia University what it is today

Concordia At A Glance

Concordia University, now 29,000 strong, was established in 1974 by the merger of Sir George Williams University and Loyola College. Its departments, colleges and research centres are grouped into four faculties – Arts and Science, Commerce and Administration, Engineering and Computer Science, and Fine Arts. Together they offer more than 160 graduate and undergraduate programmes. The University has two campuses: one in downtown Montréal; the other in a residential setting in the city's west end.

U ndergraduate Students	22,684
- Full-time	11,445
- Part-time	11,239
G raduate Students	3,144
- Full-time	1,834
- Part-time	1,310
TOTAL STUDENTS	25,828 *
G raduate Scholarships Received by Concordia Students	213 **
U ndergraduate Scholarships Received by Concordia Students	169 ***
D egrees Granted	3,699 ****
F aculty Members	1,579
- Full-time	699
- Limited-term Appointments	129
- Part-time	751
P rofessional Librarians	39
F ull-time Support Staff	1,162
P art-time Permanent Support Staff	62
TOTAL EMPLOYEES	2,842
O perating Expenses	\$148,791,800
R esearch Grants and Contracts	\$11,144,413
I tems in Library Collection	1,440,413
N umber of Buildings	69
- West-end Campus	31
- Downtown Campus	38

* Including 655 International Students

** These include grants from federal and provincial agencies, Concordia Graduate Fellowships and Concordia Teaching Fellowships

*** These include Entrance and In-Course Scholarships

**** Including Diplomas and Certificates

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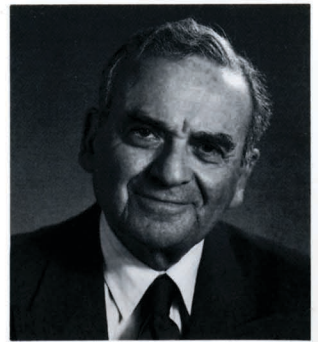
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CHANCELLOR'S MESSAGE



The debate about the merits of a general education versus a specialized one is as intense today as it has been at any time during the past decade. There are hopeful signs, however, that the tide is turning in favour of a return to what, in my day, was called classical studies.

In my own profession, for example, while the practice of law is now considered a somewhat specialized field, most of the judges of my generation were, and still are, generalists. It is one of the ironies of our times that though we live in an age of advanced specialization, we see merit in professionals who can look beyond their particular discipline. We recognize that this is the only way they can be truly effective in a society whose needs and values are undergoing constant change.

This applies as much to business and industry as it does to the professions. Where just a short time ago the private sector looked to the universities to pro-

duce graduates with specialized degrees, now it looks for graduates with broader backgrounds – not just in terms of education, but in their overall vision of society. That is why we at Concordia consider good, core courses as basic to the education of our students.

In the final analysis, general education tries to teach us to ask the right questions as a first step towards finding the right answers to the issues that confront us. And even if we do not find the answers, learning to put the question is probably the most important thing that a human being can learn today – inside or outside the classroom.

As Allan Bloom pointed out so forcefully in *The Closing of the American Mind*, there is an intellectual crisis in North America arising from young people's ignorance of the philosophical underpinnings of our society. If we are to survive this crisis and overcome the challenges of modern life, we must not lose

sight of the fact that it is no accident science was once known as the moral philosophy. Today, more and more, we must place an emphasis on philosophy, whether in the sciences or the classical studies. We must never forget that a true education is an understanding – however incomplete it may be – of the values on which all knowledge is based.

Alan B. Gold



RECTOR'S REPORT

1987-1988: People and Communities Coming Together



The 1987-1988 academic year was significant for the enhanced spirit of partnership which animated all sectors of the University and its many supporters in the community.

Undoubtedly, the highlight of the year was the series of public events in the fall designed to raise awareness of Concordia's chronic state of underfunding. Our campaign focussed on convincing the Minister of Higher Education and Science both to acknowledge the increased inequities and hardship which would result for the University if his proposals for the allocation of \$40 million in additional annual grant monies to Québec universities were implemented, and to alter recommendations for this allocation to the Québec Cabinet.

Deeply disturbed by these proposals, our community reacted with energy and determination. A University Action Committee, composed of representatives from most faculty, staff and

student unions and associations, was charged with developing strategies to bring Concordia's financial plight to the attention of the government and the general public. Claude Ryan, Minister of Higher Education and Science, attended a special session of the Board of Governors to discuss his position, and Premier Bourassa himself held an historic meeting with a delegation from the Board. The most visible component of the campaign was the "Day of Action" held on 17 November, when approximately 1,000 members of the Concordia community marched on the National Assembly in Québec City and another several hundred either demonstrated at various sites in Montréal or staffed information centres on both campuses.

The net effect of our efforts has been to secure from the Québec government an undertaking that the current allocation formula would lapse after the 1988-1989 year and thus to increase pressure on the government to imple-

ment, in time for the 1989-1990 fiscal year, a more equitable funding formula. Of perhaps greater significance, our campaign has also ensured that any future funding discussions will transpire in a climate where the media and the general public are more aware than ever before of the seriousness of Concordia's financial situation and the justice of our cause.

Yet our success, I believe, has more to do with our own identity and energy as a community than with government accountability. This most recent attempt to improve our funding situation has demonstrated that we care deeply and passionately about our institution, and that we are supported by many external groups and individuals who are prepared to join us to ensure the survival and continued viability of the University. Of this, we can all be justifiably proud.

(continued)



Members of the ad hoc University Action Committee prepare material for the 17 November 1987 "Day of Action" in Montréal and Québec City

Campaign Achievements

I am equally pleased to report that our Capital Campaign attained the \$24 million mark in May 1988. We are now well on our way to a successful finalization of the campaign in the fall of 1988. We made substantial progress in our fund-raising efforts, going from \$17 million in June of 1987 to \$24 million at the end of the fiscal year. The Major Gifts Division was launched in the spring, while alumni and alumnae support for their *alma mater* attained the \$1 million level. All of this is yet another demonstration of the confidence which the extended University family has in our ability to excel.

As a result of these successes in fund-raising, we were able to move ahead with assurance on

our building projects. The Ministry of Higher Education and Science gave its approval for the preliminary conceptual plans for the downtown library complex, and we unveiled a billboard on the site with an artist's representation of the new complex. We expect that the sod-turning will occur in the fall of 1988, the culmination of many years of patient waiting.

On the west-end campus, work progressed on the expansion and renovation of the Georges P. Vanier Library. The contract was signed and construction begun on the \$4 million concert hall. When completed in the fall of 1989, this hall will fill a longstanding need for high-quality performance space for our fine arts students and will enable the University to strengthen its tradition of service to the

population of west-end Montréal. The University has also upgraded its outdoor athletic facilities in the west-end by purchasing part of the Verdun Stadium for its football field. A great morale booster for our varsity and intramural sports programmes, this structure will be funded through the efforts of members of our alumni associations and other benefactors.

Increased Research and International Profile

In the research sector, Concordia's faculty surpassed the high standards of performance set during the 1986-1987 academic year. Awards for research grants and contracts in the four Faculties reached an all-time high of \$11.1 million, an increase of 13.2% over the previous year. Our growing local, national and international reputation in research was the result of both individual accomplishment and team effort. I should like to underscore, this year, the innovative work of Dr. W.G. Habashi of the Department of Mechanical Engineering, who received the E.W.R. Steacie Memorial Fellowship, one of Canada's most prestigious awards for science and engineering achievement.

The year was also marked by increased inter-university cooper-

ation. In November, the heads of the four Montréal-area universities made a joint presentation to the Valuation, Finance and Economic Development Commission of the Montréal Urban Community (MUC) on the economic contributions of universities to Montréal's development. We opened, in conjunction with l'Université du Québec à Montréal (UQAM), Canada's first inter-university liaison office for the promotion of research and development. We also joined hands with the Chambre de commerce and Bell Canada Enterprises to launch an annual *prix d'excellence* honouring the writer of the best graduate thesis presented at one of the four Montréal universities. Concordia has been a major supporter of such initiatives, believing as it does that universities have a vital role to play in the cultural and academic life of their milieux.

As anticipated, the University's international activities continued to expand during the same year that saw us grow ever closer to our neighbours. Following upon our China initiative of the previous year, we were invited to be part of the Montréal delegation, headed by Mayor Jean Doré, which visited Shanghai and other Chinese cities in November. Dr. Francis R. Whyte, Vice-Rector, Academic, accompanied



Rector Patrick Kenniff at a reception to honour graduate students attending Concordia from the People's Republic of China

the mayor. I visited the People's Republic in April 1988, as a member of the official delegation of the Association of Universities and Colleges of Canada (AUCC). We were guests of a number of important universities, including several with which Concordia had already established strong links. In May, our Faculty of Fine Arts implemented a cultural and academic agreement signed in January with the Ministry of Culture of the Polish Government. This unique arrangement allows for the exchange of fine arts professors and students on an ongoing basis. These openings beyond our immediate borders are sources of enhancement for the University, its faculty members and students.

Enriching Our Quality of Life

1987-1988 has been a year of anniversaries for the University. We marked the 40th anniversary of the charter of Sir George Williams University and the 50th birthday of the SGW Alumni Association. The Centre for Building Studies and the Simone de Beauvoir Institute, two of our most innovative teaching and research units, each celebrated ten years of existence.

The past year witnessed a series of efforts and initiatives which, in further enhancing the quality of life in the University, made our institutional birthdays all the more worth celebrating. A third collective agreement was signed with the faculty association (CUFA), after several months of



Infant educator Elise Leblanc escorts her charges to the August opening of the west-end campus' Les P'tits Profs Day Care Centre

intense negotiations which took place in an atmosphere of good will. A large-scale Position Evaluation System was launched, the aim of which is to establish a fairer way of assessing all jobs held by Concordia's permanent, non-unionized employees. The results of a major study sponsored jointly by the University and its part-time faculty association (CUPFA) were released and will assist in improving the working conditions of our part-time faculty members, who contribute significantly to the welfare of the Concordia community. Students will also benefit from scholarship funds launched by the Loyola and Sir George Williams alumni associations, as well as the Faculty of Commerce and Adminis-

tration's establishment of a distinguished teaching award.

The University furthered its commitment to ensuring that issues relating to women are addressed in a comprehensive and systematic manner. The Board of Governors agreed to a five-year renewal of the mandate of the Rector's Advisory Committee on the Status of Women. With the financial assistance of the Ministry of Higher Education and Science, an Employment Equity Officer was hired to oversee implementation of the Board-approved policy on employment equity. Following our sponsorship of the third national conference on sexual harassment in November

1987, an Education and Policy Advisor on Sexual Harassment was likewise appointed to review and improve existing policies on this important issue. Daycare facilities were expanded, with the inauguration of the *Garderie les P'tits Profs* on the west-end campus.

Personal and Collective Contributions

In the administrative area, some significant changes have taken place. Reverend Aloysius Graham, former Vice-Rector and Principal of the Loyola Campus and Secretary of the Board of Governors, retired after many years of loyal and dedicated service, as did Mr. Kenneth Adams, Concordia's first University Registrar. The University now has its first Secretary-General in the person of Me Bérengère Gaudet. Me P. André Gervais replaced Mr. Donald W. McNaughton as Chair of the Board of Governors.

The people who make up Concordia University are its most

precious and vibrant resource. Too often, we take excellence for granted, and we fail to underscore the types of accomplishments, whether individual or collective, which enrich our life and identity as a community. I should like to make particular mention of two such achievements in the course of the past year. The Department of Music issued its first commercial recording in compact disc form, further confirmation of an already well-established reputation. Mr. Leo Bissonnette, an alumnus and



Larry Jeffrey and Albino Couto – President and Vice-President, respectively, of the union representing Loyola Campus maintenance workers

Assistant Coordinator of Services for Disabled Students, was inducted into the Loyola High School Hall of Merit, in recognition of his personal and professional commitment to improving the lives of disabled persons. Both these accomplishments are the reflection of personal merit, yet each also speaks to our

sense of pride and worth as a dynamic, living institution.

1987-1988 has seen the growth of a renewed sense of community at Concordia University. As a tangible symbol of the public recognition which we have earned, and of our prominent place in the urban community of which we are an important part, the City of Montréal, in the spring, changed the name of the Guy Métro station to Guy-Concordia. It is always a source of great pride to me to see the level of commitment to our institution which the people who study, teach and work at Concordia demonstrate on a daily basis. If the past is, in fact, the guarantor of the future, then the best years are yet to come.

Patrick Kenniff



A tangible symbol of community support for Concordia was the renaming of the Guy Métro station to Guy-Concordia. Transit commission (MUOTC) President and General Manager Louise Roy and Rector Patrick Kenniff attended the ceremony marking the change

ACADEMIC ACTIVITIES



Faculty of Arts and Science

Increased graduate enrolment, larger numbers of University Research Fellows, new graduate and undergraduate programmes and approval of a new Grade Point Average (GPA) performance standard all contributed to the development of the Faculty of Arts and Science during the past year.

Some of the more prominent individual achievements included the awarding of the University's second Professor Emeritus title – to historian George Rudé – and the awarding of a \$696,000 research grant by the U.S. National Institute of Mental Health to a team led by Psychology Professor Alex Schwartzman. The grant is the largest ever awarded to an Arts and Science Faculty research team. In all, more than 340 research grants were obtained from federal, provincial and American-based-granting agencies.

The depth of the Faculty's academic programming increased as well through the addition of two graduate programmes and three undergraduate programmes: a joint PhD in Religion (linking Concordia's existing doctoral programme with a component at the Université du Québec à Montréal); a Geography Option in the Master's Programme in Public Policy and Public Administration; and one Physics and two Computer Science Bachelor's programmes established by the Institute for Cooperative Education. The Québec government also approved an MA in Child Studies that will begin in January 1989.

The Department of Chemistry and Bio-Chemistry introduced a BSc Specialization in Synthetic Materials; the Department of Sociology and Anthropology a BA Specialization in Anthropology; and the Departments of English and Theatre a BA Joint Specialization in Playwriting.

Faculty of Commerce and Administration

Student and faculty achievement was noted in several ways in the Faculty of Commerce and Administration. A Dean's Honours List was introduced requiring a Grade Point Average (GPA) of at least 3.75 (19 people were named to the list); the Faculty's Distinguished Teaching Award was presented for the first time – to Marketing Department Associate Professor Michel Bergier; and the graduating class in Accounting recorded a remarkable 95% success rate with Canada's Uniform Final Examinations in Chartered Accountancy.

A new Master of Science in Management Programme was approved for students in Finance, Management, Marketing, and Decision Sciences and Management Information Systems; and two new programmes were approved at the bachelor's level – one in Decision Sciences and the other in Management Information Systems. *(continued)*



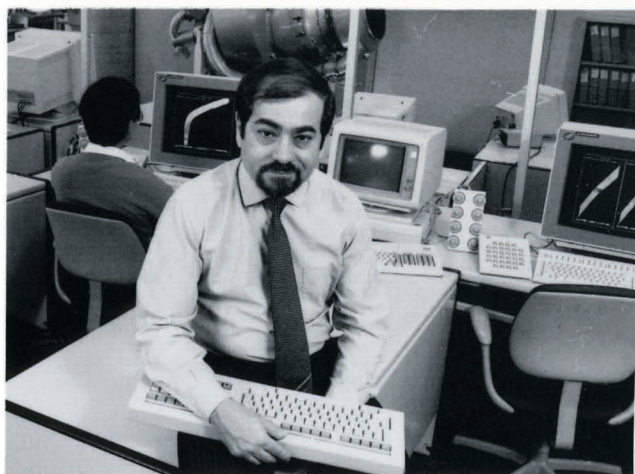
MBA Student Elaine Thériault, winner of the first Bank of Montreal Pauline Vanier Fellowship.

Faculty of Commerce and Administration *(continued)*

Research activity also continued to grow; faculty members secured approximately \$545,000 in grants from federal and provincial funding agencies – a 45% increase over the previous year. Funding was also received from the Canadian International Development Agency (CIDA) to finance Phase Two of the five-year international exchange programme with the People's Republic of China. The programme is run jointly with Tianjin University and the Université de Montréal's École des Hautes Études Commerciales (HEC).

Plans were also laid this year to open an off-campus Executive Summer School and to establish a joint teaching programme involving Concordia, HEC and New York City's PACE University.

The Faculty's Executive Master of Business Administration programme (EMBA) continued to attract students from across Canada and the New England states; 18 universities participated in the 7th annual MBA CASE Competition; five distinguished Montrealers (Stephen Jarislowsky, Roger Lachapelle, Eric Molson, Eugene Reisman and Louise Roy) were named the first recipients of the Faculty's Awards of Distinction; and Steven H. Appelbaum was reappointed to a second five-year term as Dean of the Faculty.



Mechanical Engineering Professor W.G. Habashi, winner of the E.W.R. Steacie Memorial Fellowship

Faculty of Engineering and Computer Science

High levels of performance in the Faculty of Engineering and Computer Science were reflected again this year in outstanding faculty and student achievement in many areas – most noticeably research.

Research funding surpassed \$6 million, a 20% increase over the previous year; ten faculty members were among the top 10% of Natural Science and Engineering Research Council (NSERC) engineering grantholders in Canada; and Professor W.G. Habashi became the first Concordia faculty member to win the E.W.R. Steacie Memorial Fellowship for his work in computational fluid dynamics, underscoring Concordia University's involvement in aeronautical engineering.

Two research centres opened – the Concordia Signal Processing and Communications Research Centre (CONSIPCOM) and the Concordia Pattern Analysis and Machine Intelligence Centre (CONPAMI) – joining three others with established records of achievement: the Concordia Computer Aided Vehicle Engineering Centre (CONCAVE), which moved into new quarters; the Centre for Industrial Control; and SIRICON, the corporation created by the Centre for Building Studies to develop software and other computer applications for the construction industry.

Other growing high technology areas in the Faculty include robotics, very large-scale integrated circuits, optical fibre communications, artificial intelligence and pattern recognition computer aided building design. New laboratory facilities were completed for the Aerospace Propulsion Research Laboratory, the Fluid Mechanics Research Laboratory and the Mega House, the building environment research facility operated jointly by the Centre for Building Studies and private industry.

Besides graduating its 1,000th Bachelor of Computer Science, the Faculty continued to work closely with industry, signing many mutually beneficial research contracts, and it assumed an expanded international role. Faculty members worked this past year in Argentina, Brazil, China, Czechoslovakia, France, Greece, Italy, Japan, and the United States, both on an individual basis and under the aegis of institutional agreements and exchanges.

Fine Arts Dean Robert Parker, Sculpture, Ceramics and Fibres Department Associate Professor Kathryn Lipke, Music Department Chair Christopher Jackson and Vice-Rector, Academic, Francis Whyte represented Concordia University in negotiations this past year with the Polish Government.

Faculty of Fine Arts

Fine Arts Faculty members were active across Canada and abroad this past year, participating in teaching, research and cultural activities involving the full spectrum of performing and visual arts. Construction began on a 600-seat concert hall for the west-end campus; the Contemporary Dance unit was given departmental status; a Film Production Option was introduced in the MFA Studio Arts Programme; additional academic and non-academic staff were hired and the graduate programme in sculpture acquired more studio space.



On the international level a four-member delegation travelled to Warsaw in January to sign an exchange agreement with the Polish Ministry of Culture that makes Concordia the principal point of entry for all cultural, artistic and academic groups visiting Canada from Poland during the next five years. A reciprocal visit in May by Polish government officials finalized details for the first exchange – involving multi-media visual artist Jaroslaw Kozlowski – and laid plans for eight other exchanges which will occur next year in the areas of Painting and Drawing, Music, Design Art, and Printmaking and Photography. Four of the participants will be Concordia professors, the other four Polish artists.

Attendance at theatre productions and concerts, as well as visits to the Concordia Art Gallery, increased again this year; they now number more than 50,000 annually. But the Faculty's public outreach took many forms. All permanent and part-time faculty members were active in community-related projects, as exemplified by Françoise Sullivan's winning the *Prix du Québec* (joining previous faculty award-winners Yves Gaucher and Bernard Lagacé – *Order of Canada*; Guido Molinari – *Prix du Québec*; and Ulysse Comtois – *Prix Borduas*).

In other endeavours, Silvy Panet-Raymond led a troupe of award-winning student dancers in performances at the Olympic Arts Festival, held in conjunction with the Winter Games in Calgary; Joe Cazalet was one of the lead actors in the Canadian tour of the play *Kiss of the Spider Woman*; and non-academic staff members Shirley McLeod, who represents Concordia non-academic staff on the Board of Governors, and Art History Librarian Kathleen Perry worked on special assignment developing policies for the University on sexual harassment and employment equity, respectively.

Division of Graduate Studies

The Division of Graduate Studies expanded its activities on a number of fronts this year. Associate Management Professor V.V. Baba was appointed to fill the newly-created post of Associate Dean; two new programmes were submitted to the Conseil des Universités for approval – a PhD in Biology and an MSc in Administration; the Division completed the renovation and expansion of its Mackay Street offices; a new communications policy was implemented to improve the Division's visibility, both locally and nationally, and action was taken on several levels to appraise and improve, where necessary, the academic quality of Concordia's graduate programmes.

The Division played an active role in University-wide planning, both at the level of the Senate Committee on Academic Planning and Priorities and in the Assembly of Graduate Programme Directors, which was established this year to serve as a forum for communications and exchange among the University's 68 graduate programmes. As part of its other communications thrusts the Division established a national newsletter and a graduate awards booklet – to make students better aware of the opportunities available to them – and it played a leading role in creating the *Prix d'Excellence de l'académie des grands Montréalais*, a \$5,000 annual prize awarded jointly by the Chambre de Commerce de Montréal, Bell Canada and the four Montréal-area universities (including the Université de Montréal's two affiliated schools –

École Polytechnique and École des Hautes Études Commerciales) to honour the writer of the best doctoral thesis written at a Montréal university.

As part of its administrative reforms the Division expanded the number of standing committees on the Board of Graduate Studies from two to five, and revised all rules, regulations and procedures regarding examination procedures, thesis writing and the grading system.

In 1987-1988, 38 PhD and 373 Master's degrees were awarded to Concordia students. The following is a list of PhD recipients and the titles of their dissertations:

ARBOUR, Claude (Chemistry) "Picosecond Flash Photolysis of TiO₂ Colloids and Time-Resolved Photoacoustics"

BALK, Roger A. (Religion) "Buying Time: A Theological Perspective on Ethical Issues of High Technology Innovations in Medicine-Heart Transplantations"

BARRON, Denis (Chemistry) "Advances in the Phytochemistry, Organic Synthesis, Spectral Analysis and Enzymatic Synthesis of Sulfated Flavonoids"

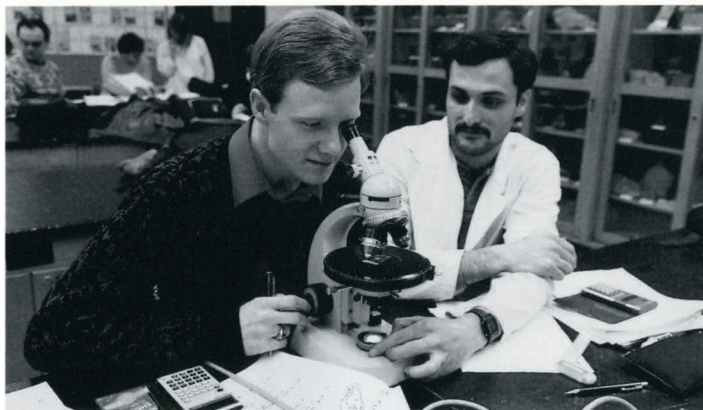
BRAMWELL REJSKIND, G.A. (Psychology) "Sex Differences and Specialization in the Divergent-Thinking Styles of Gifted Children"

BUSH, Gerald (Mechanical Engineering) "Computer-Aided Synthesis of Optimal Multi-Speed Gear Drive Designs Using Problem Reduction Strategy"

CHOMIENNE, Martine (Educational Technology) "L'enracinement des applications pédagogiques de l'ordinateur; une étude de cas dans la région de Montréal"

CROUCH, Andrew (Chemistry) "Photo-electrochemical and Photocatalytic Behaviour of Thin Porphyrin Films on Semiconductor Materials" (continued)





Division of Graduate Studies (continued)

DI CARLO, Dominique (Religion) "Poetics of the Will and the Grounding Ethics: An Historical, Methodological, and Comparative Study of Maurice Blondel's *L'Action* (1893)"

FISHBANE, Simcha A. (Religion) "An Analysis of the Literary and Substantive Traits of Rabbi Israel Mayer Hochen Kagen's *Mishnah Berurah*; Sec. 243-247, 252"

GARCIA DE CARVALHO, Heitor (Educational Technology) "Expert Systems in Educational Research Methodology: Contributions Towards a General Model of Research Design and Experimental Implementation of a Prototype"

GIARD, Jacques (Special Individual Programme) "HIGH SPEED TRAINS: A Comparative Study in National Characteristics of Design"

GOCEVSKI, Vladimir (Civil Engineering) "Elasto-Plastic Two Surface Sail Model and its Finite Element Formulation and Application"

HAN, Francis Kun S. (Religion) "A Catholic Communal Welfare Institution in a Changing Society, Montréal: 1931-1986"

HENDERSON-DAVIS, F.M. (Religion) "The Rise and Decline of Catholic Lay Movements in New York City: 1933-1967"

HÉROUX, Lise (Administration) "Buyer-Seller Interaction: A Script Theoretic Approach"

ISBITSKY, Joyce R. (Psychology) "Development and Socialization of Restrained Eating in Obese and Nonobese Youngsters"

KHOURI, Henry E. (Chemistry) "Enzymatic Aspects of O-Glucosylation of Anthraquinones and O-Methylation of Flavonoids in Plant Tissues"

KISS, Ivan (Psychology) "An Electrophysical Search for Candidate Pathways Responsible for the Rewarding Effect of Medial Forebrain Bundle Stimulation"

LAVIGNE, John A. (Chemistry) "Kinetic Study of the Speciation of Nickel (II) Bound to a Fulvic Acid"

LÉVESQUE, Pierre (Chemistry) "Selective Conversion of Methanol into hydrocarbons on chryso-zeolite or zeolite ZSM-5 catalysts"

LI, Kin Fun (Electrical Engineering) "A Simulation Study and an Operating System Design of the Homogeneous Multiprocessor"

MISRA, Pradeep (Electrical Engineering) "Computational Methods for Multivariable System Analysis and Design"

MITCHELL, John B. (Psychology) "The Involvement of the Mesolimbic Dopamine System in the Sexual Behaviour of the Male Rat"

MURTHY, Narasimha A.S. (Civil Engineering) "Comprehensive Study of Provincial Commodity Transportation"

NERIYA, Santosh (Mechanical Engineering) "Dynamic Behaviour of Geared Rotor Systems Subjected to Internal and External Excitations"

ORD, Robin (Chemistry) "Periodic Regulation of the *TMP1* Gene of *Saccharomyces cerevisiae* which Encodes Thymidylate Synthase"

PALAKAL, Mathew (Computer Science) "Morphological Representation of Speech Knowledge for Automatic Speech Recognition Systems"

RAJIVA, Vijay (Humanities) "Marx, Lenin and the Problem of Revolution"

RENGASAMY, Arumugam (Electrical Engineering) "Design and Finite Element Analysis of Switched Reluctance Motors"

RETALLACK-LAMBERT, Nancy (Studio Arts) "A Documentation and Interpretation of Four Children's Art Serials"

RIOUX, Patrick (Electrical Engineering) "Minimum Cost Sizing of Rearrangeable Networks with Multiperiod Demands"

SIMARD, Marc (History) "La crise de représentations politiques et intellectuelles dans la France de l'entredeux-guerres"

SOLEYMANI, Mohammed (Electrical Engineering) "A Rate-Distortion Theoretic Approach to Pattern Recognition"

SOOKMAN, Debbie (Applied Psychology) "The Efficacy of Comprehensive Behaviour Therapy for Chronic Pain"

SPIVAK, Karen (Psychology) "Brain Aldehyde Dehydrogenase and Central Acetaldehyde in the Mediation of Ethanol Consumption"

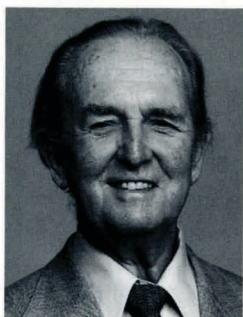
SULLIVAN, Michael (Psychology) "The Effects of Observers' Mood on Causal Attributions for Other's Behaviour"

SUNDARAJAN, Duraisamy (Electrical Engineering) "Image Processing on a Parallel Computer Architecture"

VEZINA, Paul (Psychology) "An Investigation of the Development and Expression of Sensitization to the Locomotor Activating Effects of Amphetamine and Morphine"

Appointments

APPOINTMENT TO THE RANK OF PROFESSOR EMERITUS



GEORGE RUDE
History

APPOINTMENT TO THE RANK OF FULL PROFESSOR

MOHSEN ANVARI
Decision Sciences & Management
Information Systems

RAMA B. BHAT
Mechanical Engineering

HON FUNG LI
Computer Science

MUHAMMAD JAMAL
Management

LESLIE LASZLO
Political Science

PATRICIA LIGHTBOWN
TESL Centre

FRANK MULLER
Economics

EDWARD PECHTER
English

RONALD STERN
Mathematics

APPOINTMENT TO THE RANK OF ASSOCIATE PROFESSOR

KAMAL ARGHEYD
Management

HAROLD CHORNEY
Political Science

ELIZABETH HENRIK
Psychology

ALAN HOCHSTEIN
Finance

ERIC MONGERSON
Theatre

MARJORIE MORTON
Cinema

APPOINTMENT TO THE RANK OF ASSOCIATE PROFESSOR *(continued)*

ABDUL RAHMAN
Finance

JUAN SEGOVIA-ZAPIAIN
Accountancy

GABOR SZILASI
Printmaking and Photography

KATHERINE TWEEDIE
Printmaking and Photography

DEATHS

ED BRUSSELL
Psychology

NELLIE SHARPE
Sociology and Anthropology

Faculty Personnel

Faculty	Full-Time	Limited Term	Part-Time*
Arts & Science	436	56	416
Commerce & Administration	93	41	101
Engineering & Computer Science	92	7	65
Fine Arts	78	25	169
Total	699	129	751

* Excluding faculty personnel in continuing education, off-campus activities and private studies.

International Cooperation

Concordia University has ties with academics in more than 100 countries, but the major international development during the past year was the five-year exchange programme concluded between the Faculty of Fine Arts and the Polish Ministry of Culture. The entente provides for a wide range of academic and cultural exchanges in the visual and performing arts between Concordia and 22 of Poland's leading fine arts institutions.

The agreement was negotiated during visits to Concordia by (i) Tadeusz W. Mlynczak, Vice-Chairman of Poland's Council of State; (ii) His Excellency Alojzy Bartoszek, the Polish Ambassador to Canada; (iii) a delegation led by Edmund Heza, Director of the Polish Ministry of Culture's Department of Education; (iv) Janusz Karski, the Polish Consul-General in Montréal; and (v) a reciprocal visit to Poland by a four-member Concordia delegation led by Vice-Rector, Academic, Francis Whyte.

(continued)

International Cooperation *(continued)*

In all, Concordia hosted delegations from a dozen countries during 1987-1988, including Botswana, the Democratic People's Republic of Germany, Hungary, India, Italy, Japan, the United Kingdom and the United States. The Faculty of Commerce and Administration laid the groundwork for a cooperative relationship with Sweden's Gothenborg University, and in June Concordia hosted the first academic visit to Canada from the Democratic People's Republic of Korea. A delegation from the Korean Academy of Social Sciences in Pyongyang came to explore the possibility of future faculty and student exchanges in the social sciences.

Concordia also participated in working visits with representatives of the National Natural Sciences Foundation of China; the State Education Commission of China; and a return visit from the Commission's Senior Commissioner, Huang Xinbai, who played a pivotal role in developing the innovative joint doctoral programme that the Faculty of Engineering and Computer Science established last year with Nanjing's Southeast University.

Concordia remains one of the most active Canadian universities in China; formal exchange programmes have been established with eight of that country's leading academic institutions. To help cement the relationship Concordia awarded an honorary Doctor of Laws (LL.D) degree at its June convocation ceremonies to Wei Yu, one of China's leading academics, a member of the Central Committee of the National People's Congress and President of Southeast University.

Convocations

Approximately 3,300 undergraduate students and 400 graduate students participated in the spring and fall convocation ceremonies (see below). Former Concordia Chancellor W. Earle McLaughlin was honoured with an honorary Doctor of Laws degree (LL.D) at the fall convocation. Honorary Doctor of Laws degrees were presented at the spring convocations to architect Raymond T. Affleck, scientist Stafford Beer, physics Nobel Prize winner Subrahmanyam Chandrasekhar, chemistry professor Ronald J. Gillespie, painter Jori Smith, author Elizabeth Spencer, businessman Allan R. Taylor, researcher Ashok Vijn and electronics engineer and educator Wei Yu.

(continued)

Degrees Conferred and Certificates and Diplomas Awarded 1987-1988

Faculty	Number Conferred
ARTS & SCIENCE	
Bachelors	1,689
Masters	151
Doctorates	24
Others*	180
COMMERCE & ADMINISTRATION	
Bachelors	696
Masters	141
Doctorates	1
Others*	82
ENGINEERING & COMPUTER SCIENCE	
Bachelors	287
Masters	66
Doctorates	11
Others*	23
FINE ARTS	
Bachelors	312
Masters	15
Doctorates	2
Others*	19
Total	3,699

* Including Diplomas and Certificates

Convocations

(continued)

- 1 **W. EARLE MCLAUGHLIN**
(2nd from Left)
- 2 **WEI YU** (Left)
- 3 **ASHOK VIJH** (Left)
- 4 **ALLAN R. TAYLOR** (Right)
- 5 **JORI SMITH**
- 6 **SUBRAHMANYAN CHANDRASEKHAR**
(Right)
- 7 **RONALD J. GILLESPIE** (Left)
ELIZABETH SPENCER (Right)
- 8 **STAFFORD BEER**
- 9 **RAYMOND T. AFFLECK**



1



2



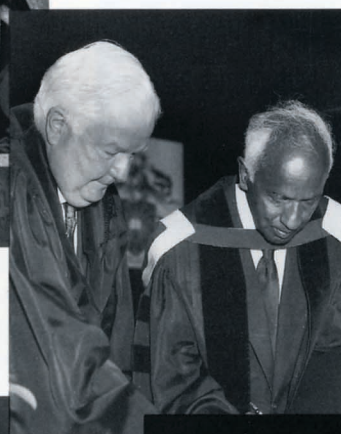
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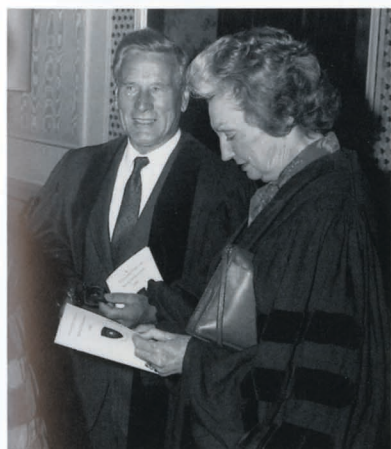
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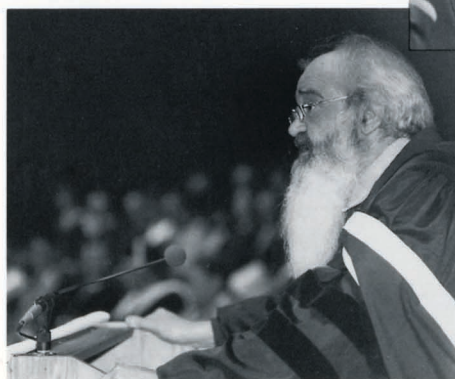
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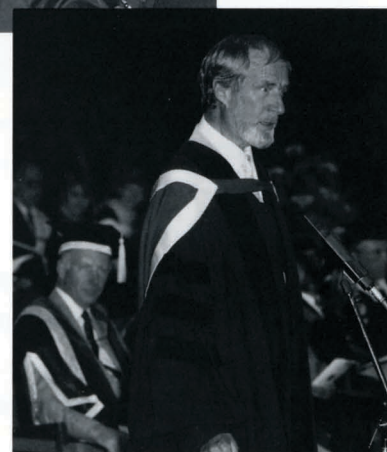
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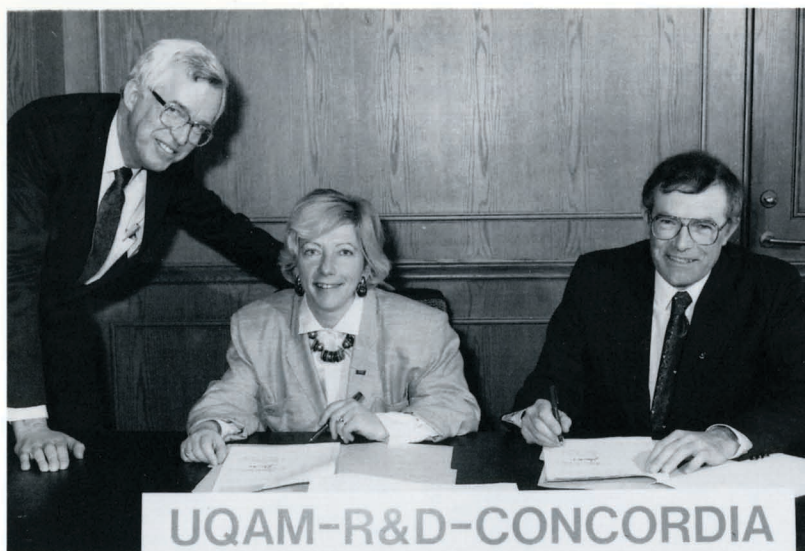
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8



9



Research

University-industry cooperation was strengthened through the establishment of a joint research liaison office between Concordia University and the Université du Québec à Montréal (UQAM). Pictured at the signing ceremony establishing the venture are Gilles Dupont, Senior Project Manager for the National Research Council of Canada; Monique Lefebvre-Pinard, Vice-Rector Academic at UQAM; and Francis Whyte, Vice-Rector Academic at Concordia.

Concordia University continued to make significant gains in research this past year. The largest growth area was that of research contracts, which rose for the second consecutive year – up 27.4% over the 1986–1987 level.

Overall, University funding increased 13.2% during the past 12 months, to a new high of \$11.1 million. Much of this extra revenue was attributable to increased federal and provincial government research activity. For example, Concordia's share of funds from Québec's Action Structurantes programme increased by 19%.

Among the faculties, Engineering and Computer Science obtained 55% of Concordia's total research funding; the Faculty of Arts and Science obtained 38%; and the remaining 7% was distributed between the Faculties of Commerce and Administration and Fine Arts.

The largest individual recipient was the Department of Mechanical Engineering – with grants in excess of \$2.5 million, including more than \$1 million from the Natural Sciences and Engineering Research Council (NSERC). The Departments of Psychology and Electrical and Computer Engineering also obtained major funding in excess of \$1.5 million. The largest individual Faculty increase was recorded by Commerce and Administration, where funding rose by 45% over 1986–1987 – the second major increase in as many years.

1987-1988 Sources of Research Income

	1987-1988	1986-1987
N.S.E.R.C.	\$ 4,658,637	\$ 4,278,813
M.R.C.	141,218	133,929
S.S.H.R.C.	814,464	498,716
Federal Government	632,123	935,795
Québec Government	2,896,760	2,431,681
United States Government	197,487	212,420
Canadian Companies and Corporations	1,156,509	978,853
Canadian Foundations, Associations and Societies	480,076	253,391
Other Sources	167,139	122,096
Total	\$ 11,144,413	\$ 9,845,694

Administrative developments at Concordia this past year encompassed a wide range of activities from construction projects to a new Position Evaluation System for non-academic employees.

ADMINISTRATIVE ACTIVITIES

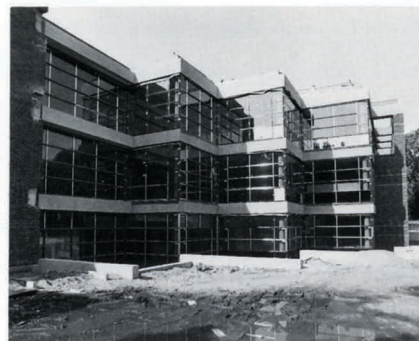


Vice-Rector Services

Major initiatives in the Office of the Vice-Rector Services included the construction of library facilities on both campuses, the installation of additional athletic facilities on the west-end campus and the launch of a University-wide Management Information System (MIS). The latter project – to be designed and implemented during the next five years – is a cohesive computerized information network to assist in planning, decision-making and reporting among all segments and all levels at Concordia.

Simultaneously, a five-year strategic development plan for computing services was approved to develop better computing tools for teaching, research and University administration. The project will improve Concordia's data communications capabilities by developing local systems for teaching needs and enhanced research activities.

The University's library construction programme proceeded on two fronts. The Québec government approved the conceptual drawings and preliminary budgets for the downtown library complex – scheduled to begin in the fall of 1988 – and work continued on the renovation and expansion of the west-end campus' Georges P. Vanier Library. Work also began on a \$4 million, 600-seat concert hall adjacent to the Vanier Library. The hall will serve as a teaching facility for the Faculty of Fine Arts and a community resource for the public. In addition, Concordia's Department of Fitness, Recreation and Athletics began installing a 3,000-seat stadium on the west-end campus. The new facility, acquired from the City of Verdun, will be erected alongside the football field, doubling the seating capacity for outdoor events to 6,000. A new Director was also named for the department. Robert (Bob) Philip, the former Assistant Director for Intramurals, was appointed in May to replace Edmund F. Enos, who stepped down after 22 years to take up teaching duties in the Department of Exercise Science.



Vice-Rector Institutional Relations and Finance

The Office of the Vice-Rector Institutional Relations and Finance embarked on a number of priority areas that include: (i) developing a University-wide communication strategy to enhance Concordia's image and reputation and encourage stronger identification with the institution; (ii) establishing an advancement infrastructure and coordinated fund-raising programme; and (iii) developing a stable and sound financial situation for the University.

As part of that programme an Advancement Office was established to assume responsibility for fund-raising and University development at the end of the current five-year Capital Campaign. The Board of Governors Advancement Committee was also restructured (formerly named the Fund Procurement Committee) to approve fund-raising goals and recommend strategies and approaches.

(continued)

Vice-Rector Institutional Relations and Finance *(continued)*

Under the aegis of an advisory committee on communications strategy, a programme was launched to develop initiatives to enhance Concordia's image and community relations, both internally and externally, with particular emphasis this year on coordinating promotional materials and information packages produced throughout the University.

A University-wide budget committee was also struck to assist in the preparation of each unit's annual budget. The committee's long-term goal is to help ensure that resource allocations reflect and support academic initiatives approved as part of Concordia's strategic planning process.

In the area of human resources, work began on a Position Evaluation System to evaluate all non-academic jobs at Concordia (administrative, support and professional) in order to establish a more equitable compensation system. Implementation of the system is scheduled for the fall of 1989.

Capital Campaign

The last 12 months brought Concordia's five-year Capital Campaign within sight of its \$25 million objective. Approximately \$24 million was raised by May 31, 1988 – 96% of the goal.

Following the success of the campaign's internal fund drive – spearheaded by Family Gifts Division leader Donald W. McNaughton – activity this past year was centred on the "Daring to Excel"

Permanent Support Staff

	Full-Time	Part-Time
Administrative	97	—
Professional	259	19
Technical	100	6
Secretarial	226	11
Office	332	15
Trades	148	11
Total	1,162	62

campaign's Leadership Gifts Division, headed by Air Canada Chairman Claude Taylor; the Major Gifts Division, headed by Royal Bank of Canada Vice-Chairman A.H. (Mike) Michell; and the Alumni Special Names Division, headed by Montorsan Holdings Ltd. President Peter Howlett.

A Designated Gift Programme was also introduced to enable Concordia's benefactors to donate to specific areas at the University; construction began on the \$4 million concert hall at the west-end campus; and, as mentioned earlier in this report, work continued on the expansion and renovation of the Georges P. Vanier Library. Construction of the downtown library complex is slated to begin in the fall. *(continued)*



Position Evaluation System focus group members

Table of Needs

Construction of a new library complex on the downtown campus	\$ 9,750,000
Renovation and expansion of Georges P. Vanier Library on the west-end campus	\$ 5,250,000
Furbish and equip laboratories, renovate classrooms, foster faculty research and graduate studies	\$ 3,100,000
Concert hall at west-end campus	\$ 4,000,000
Undergraduate scholarships and graduate fellowships	\$ 2,500,000
Rector's Fund for Initiatives	\$ 1,000,000
Total: Campaign for Concordia	\$ 25,600,000

A Division by Division Report

Phase I Total **\$ 15,003,337**

Completion Phase:

Family Gifts Division	\$ 1,727,356
Leadership Gifts Division	\$ 5,374,440
Alumni Special Names Division	\$ 620,250
Major Gifts Division	\$ 148,650
General Alumni Division	\$ 773,348

Grand Total May 31, 1988 **\$ 23,647,381**



Vice-Rector Institutional Relations and Finance Maurice Cohen (third from right) inspects a maquette of the downtown library complex along with Concordia alumni members at the March 1987 launch of the Capital Campaign's Major Gifts Division

COMMUNITY RELATIONS



An Overview

With approximately 26,000 students, almost 3,000 faculty and staff, two campuses, and more than 60,000 alumni worldwide, Concordia University is one of Canada's most dynamic academic institutions. Its hallmark has always been community involvement. Many of its library services, for example, are open to the public; attendance at its film screenings, drama productions, lectures, music concerts and art exhibitions numbers in the hundreds of thousands annually; Concordia faculty and students provide research and consulting services – to corporations, individuals and small businesses; the University's downtown and west-end campuses are available as conference sites for non-profit organizations and, whenever possible, athletic facilities are made available to organized groups and members of the public.

More importantly, Concordia offers a flexible, modern approach to education. Although the majority of its students are recent college graduates, Concordia has one of the most welcoming open-door policies in Canada in recruiting senior citizens. And part-time studies and flexible class scheduling allow students of all ages to pursue their education without abandoning their jobs.

This intelligent approach to education and career goals, carried out with vigour and creativity, reflects Concordia's awareness of society's changing needs and its commitment to a lifetime of learning, the pursuit of excellence and the development of human potential.

Town and Gown

Campus life takes many forms, but the emphasis at Concordia is on "Town and Gown" – helping to ensure that Concordia keeps abreast of societal developments and thus contributes to a better understanding of the wider community. During the past year, for example, Concordia hosted the inaugural lecture of its annual Consolidated-Bathurst Lecture Series, with celebrated author/journalist James (Scotty) Reston of the New York Times. In August, Concordia co-hosted a six-day conference on space structures with the Los Angeles Campus of the University of California (UCLA) and NASA (the National Aeronautics and Space Administration). In September, former British Prime Minister Edward Heath spoke on *China and the West* as part of the Jean H. Picard Lecture Series.

Working with one of Canada's leading financial institutions, Concordia also established the Bank of Montreal Pauline Vanier Fellowship for career women entering the University's Master of Business Administration programme. This year's recipient of the annually awarded, two-year fellowship was Elaine Thériault, a graduate of the Faculty of Commerce and Administration.



Status of Women

Mindful of the discrimination that women continue to face in Canadian society, the University's Board of Governors extended the mandate of Concordia's Office on the Status of Women for an additional five years. Uppermost in the office's programme are efforts to address such issues as employment equity, sexual harassment and gender bias in curriculum. Major actions to improve conditions for women students, faculty and staff during 1987-1988 included the appointment of Kathleen Perry as Employment Equity Officer in

the Office of the Vice-Rector Institutional Relations and Finance (a position funded, in part, by a grant from the Québec Ministry of Higher Education and Science) and Shirley McLeod as Education and Policy Advisor on Sexual Harassment; the establishment of a Women's Centre - a central resource and referral facility for women faculty, students and staff (funded by the Concordia Council on Student Life and the Office of the Vice-Rector, Services); the organization of Canada's third and largest to date national conference on sexual harassment; and the launching of administrative, faculty and secretarial networks to assist women in the Concordia community with a variety of professional and personal concerns.

The Office on the Status of Women is also preparing guidelines for non-sexist and non-racist language in all University publications, and has begun work on a video and training manual on the issue of gender discrimination in the classroom. The latter project is being directed by Debra d'Entremont, with financial assistance from a variety of sources including the Secretary of State of Canada, the Office of Concordia University's Vice-Rector, Academic, the academic deans, and the Audio Visual Department.





Ann Kerby and Leo Bissonnette, Coordinator and Assistant Coordinator, respectively, of Concordia's Services for Disabled Students

Services for Disabled Students

Concordia students and faculty members also benefit from the exceptional work carried out by the University's Services for Disabled Students, a division of the Office of the Dean of Students. In addition to providing the support the disabled need to pursue their studies, the service offers innovative programmes, special equipment, a pool of volunteers and, most importantly, a human concern for everyday problems to ensure that disabled students participate in as many facets of academic and para-academic life as possible.

As is the case with so much at Concordia, the work of faculty members such as Louis Jankowsky (Department of Exercise Science), Robert Lambert (Department of Psychology), Mary Brian (Department of Mathematics) and student and staff members of the Services for Disabled Students, such as Doreen Ferland, Ann Kerby and Leo Bissonnette, extends far beyond the boundaries of the University's two campuses.

Alumni

This past year was marked by the active participation of large numbers of alumni and alumnae in recruitment programmes, volunteer work, social activities, workshops and seminars. Both the Loyola Alumni Association and the Association of Alumni of Sir George Williams University established student scholarships – the latter to mark the 50th Anniversary of the SGW group's first graduating class – and the Concordia University Alumni Association initiated plans for an alumni affinity card (i.e., a bank credit card that will generate revenue for Concordia every time it is used). In phase two of the programme the card will be made available to faculty members and staff. Recruitment efforts were also heightened in alumni chapters across Canada and abroad, including such cities as New York, San Francisco, Los Angeles and Hong Kong.



Student Enrolment Fall 1987

Faculty	Full-Time		Part-Time	
	Undergraduate	Graduate	Undergraduate	Graduate
Arts & Science	6,550	832	4,214	447
Commerce & Administration	2,207	387	2,784	405
Engineering & Computer Science	1,462	421	600	150
Fine Arts	1,173	187	896	28
Independent Students	53	7	2,745	280
Total	11,445	1,834	11,239	1,310



Language Distribution of Students Fall 1987

Faculty	English	French	Others
Arts & Science	8,446	1,866	1,731
Commerce & Administration	3,904	909	970
Engineering & Computer Science	1,313	362	958
Fine Arts	1,239	880	165
Independent Students	2,195	417	473
Total	17,097	4,434	4,297
%	66.2	17.2	16.6

Geographical Origin of Students Fall 1987

Montréal	23,115	89.5 %
Other Regions in Québec	1,188	4.6 %
Other Provinces and Territories	788	3.1 %
Unspecified Location in Canada	82	0.3 %
Outside Canada	655	2.5 %
Total	25,828	100.0 %

FINANCIAL STATEMENTS

Statement of Revenue and Expenses



(for the year ended May 31, 1988)

Revenue

1988

1987
(Restated)

UNRESTRICTED

University

Students' tuition fees	\$ 9,529,020	\$ 9,403,467
Province of Québec operating	105,256,000	93,643,196
Miscellaneous fees and other income	5,278,894	4,351,140
	120,063,914	107,397,803

Continuing education	1,854,276	1,557,567
Student services	3,317,250	2,876,042
Ancillary services		
Bookstores	5,368,326	4,980,475
Residences and food services	679,641	648,326
Printing and reproduction services	1,947,289	1,710,354
Parking	106,189	95,724
	8,101,445	7,434,879
	133,336,885	119,266,291

RESTRICTED

Scholarships and fellowships	544,901	637,122
Assisted research grants	11,403,815	10,232,780
	11,948,716	10,869,902

TOTAL REVENUE

\$ 145,285,601

\$ 130,136,193

Expenses**1988**1987
(Restated)**UNRESTRICTED**

University

Academic	\$ 76,435,999	\$ 66,525,507
Library	7,703,477	6,829,865
Audio-visual	1,515,144	1,320,910
Computer centre	4,679,082	3,975,655
	90,333,702	78,651,937
Administration	11,789,952	11,404,062
Operational services	18,543,076	19,297,349
Interest expense, net	3,248,736	3,214,455
	123,915,466	112,567,803
Continuing education	2,080,454	1,575,211
Student services	3,278,961	3,020,947
Ancillary services		
Bookstores	5,126,266	4,737,353
Residences and food services	527,537	514,365
Printing and reproduction services	1,827,998	1,725,173
Parking	86,402	80,172
	7,568,203	7,057,063
	136,843,084	124,221,024

RESTRICTED

Scholarships and fellowships	544,901	637,122
Assisted research	11,403,815	10,232,780
	11,948,716	10,869,902
Total expenses	148,791,800	135,090,926

**EXCESS OF EXPENSES OVER
REVENUE FOR THE YEAR**

(3,506,199) (4,954,733)

\$ 145,285,601**\$ 130,136,193**

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